

# Laser Work Update & Schedule

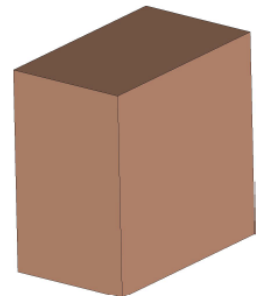
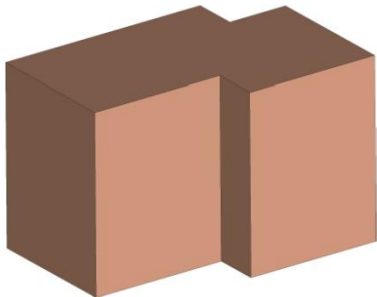
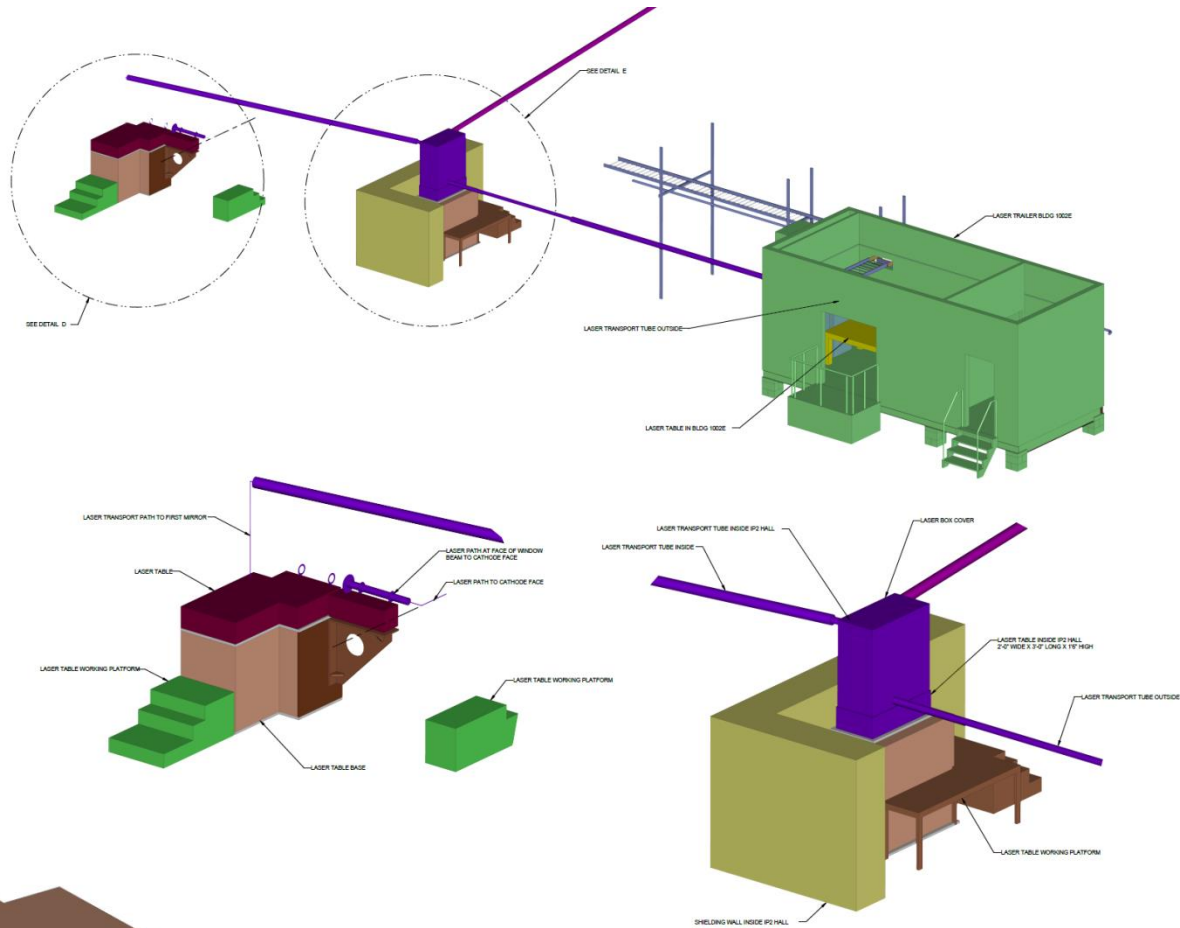
Zhi Zhao

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# Outline

- Laser transport - update
- Laser moving from trailer-ERL
- Laser topics & specs for LEReC
- Laser for Gatling gun

# Laser transport - Updated Layout

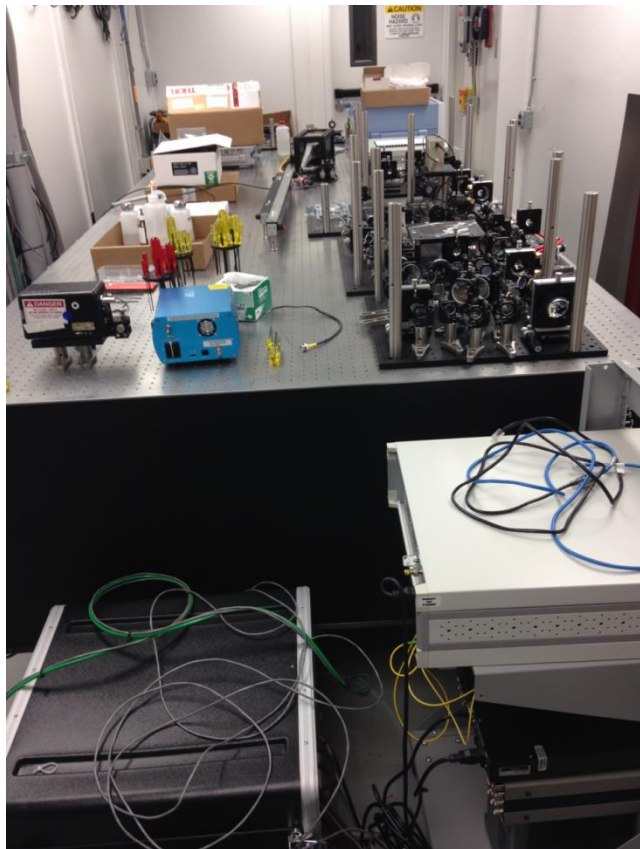


# Laser Transport - Part Update

- Three optical tables:  
5x12x2 ft<sup>3</sup>, 2x4 ft<sup>2</sup>, 4x6x1 ft<sup>3</sup> & extension
- View window: ordered
- Vacuum pipe, flange, and mechanical support
- Mirrors, lens, & position feedback: quotes are ready
- Mechanical support: lifting and lowering the beam
- Walls for laser tables: ?
- temperature & humidity control:
- Shielding block: any change
- Laser trailer - renovation
- Any more concerns

# Laser Moving from Trailer to ERL: Done

- LEReC laser, CeC laser, parts, chillers, & tool boxes;
- More work: interlocking, electricity, water, ...



## New table:

- Area:  $32 \text{ ft}^2 \rightarrow 65 \text{ ft}^2$
- Thickness: 1 foot  $\rightarrow$  2 ft

# Laser Topics & Specs for LEReC

- Gun table
- Cross-correlator
- Pulse picker

# Laser for Gatling Gun

- Frequency doubling
- PC for pulse picker



PC crystal



PC driver